

AGENDA
32nd TES SCIENCE TEAM MEETING
Caltech – Sharp Auditorium

June 16, Wednesday

Instrument and Algorithm Session

8:30 AM Coffee and Baked Goods

9:00 John Worden, Annmarie Eldering, Anne Douglass: Opening Remarks and Schedule

9:20 David Rider: TES Instrument Status (PCS, ICS)

9:35 Annmarie Eldering: Open discussion of science priorities and future observations:
(i.e, if we need to further reduce observations, how we will do it)

10:00 Ming Luo / Susan Kulawik / Scott Gluck Version 5 (R12) / Version 6 Algorithm
Status:

Ming Luo: R12 / R11 side by side

Susan Kulawik: List of Algorithm Changes from Version 4 to Version 5

Scott Gluck: Status of Processing System

10:20 Bob Herman: Validation Updates (Major updates to version 5, validation papers)

10:35 Coffee Break

11:00 John Worden: Additions and changes to post Version 5 (R12) Products (N₂O,
delta-d Profiles, CH₄ profiles, and SO₂)

11:20 Karen Cady-Pereira: Post Version 5 (R12) (Methanol, Acetylene, and Formic
Acid)

11:40 – 1:10 (Lunch)

1:10 Richard Eckman: View from Headquarters and Proposal Opportunities

1:30 Stan Sander New: Mission Concepts: GeoCape

1:50 Paul Hamer “Geo-Cape observing requirements for the prediction of PBL ozone”

Chemistry and Climate

2:10 Jennifer Logan “The effects of differences in convection schemes in GEOS-4 and GEOS-5 meteorological fields on CO and ozone in the tropical troposphere as revealed by TES and MLS data”

2:30 Jessica Neu “Diagnosing the stratospheric contribution to tropospheric ozone variability using UT/LS ozone correlations”

2:50 Coffee break

3:15 Tutu Aghedo “Multi-Model comparison of ozone radiative forcing”

3:35 Richard Dupont “Ozone Chemistry in Boreal Fires”

3:55: Karen Cady-Pereira “NH₃ from TES: Limits and possibilities”

4:15 Daven Henze “Inverse modeling constraints on NH₃ emissions using TES observations”

4:35 - 6:00 Poster Session

6:30 TES Meeting Dinner - Caltech Rath Al Fresco (\$25-\$30 cash per person to Annmarie)

Thursday June 17

Water Cycle Session

8:30 AM Coffee and Baked Goods

9:00 Camille Risi “What can we learn from water vapor isotope measurements by satellite about processes controlling tropical tropospheric humidity?”

9:20 Jeonghoon Lee: “Influence of variations of large-scale circulation on tropical water vapor and its isotopic composition”

9:40 Eric Posmentier: “Atmospheric Isotope Modeling as a Basis For Inferring Hydrologic Processes from Satellite Observations of HDO”.

Greenhouse Gasses

10:00 Christian Frankenberg: "CH₄ emissions from SCIAMACHY data"

10:20 Kevin Wecht "Validation of TES Methane with HIPPO data for Adjoint Inverse Modeling"

10:40 Coffee Break

11:00 Yaping Xiao "What can regional simulations of the ground-based and the TES CH₄ data tell us about high-latitude sources of methane? "

11:20 Annmarie Eldering and Richard Eckman: "Discussion on upcoming Aura Call and next senior review"

12:00 - 1:30 PM Lunch

1:30 Ray Nassar: "Chemistry Updates to GEOS-Chem for modeling CO₂ fluxes"

1:50 Susan Kulawik: "TES CO₂ for carbon cycle science"

2:10 Ray Nassar: "CO₂ flux estimates from TES data"

2:30 Kevin Bowman "CO₂ Adjoint"

2:50 Mingquan Mu "Can we obtain the ratio of CO₂ to CO from TES observations?"

3:10 Annmarie Eldering and John Worden: Closing Comments

Posters

- 1) John Worden: TES results for chemistry and climate: Remote sensing advances for characterizing land/atmosphere exchanges
- 2) John Wong: Comparison of WRF-Chem to TES ozone
- 3) Helen Worden "Instantaneous Radiative Kernels for Tropospheric Ozone: Satellite" Observations and Model Evaluation"
- 4) Yunsoo Choi: "Contrasting the impact of two wildfires on CO as a biomass burning tracer over Indonesia and North Africa for October-December 2006: The perspective from space with TES"
- 5) Pranjit Saha: Sonde Tool
- 6) Dylan Millet: TES methanol
- 7) Stan Sander Geo-Cape Poster
- 8) Helen Worden: MOPITT PBL CO